ISOLATION TRANSFORMERS FOR 10BASE-T APPLICATIONS

For Adapter Cards, Hubs and Motherboards

Pulse
A TECHNITROL COMPANY

RoHS COMPLIANT



- Designed to meet or exceed IEEE802.3, 10Base-T specifications
- Peak solder reflow Temperature rating per Table 5-2 defined in IPC/JEDEC J-STD-020C
- Available with Common Mode Choke options for EMI suppression

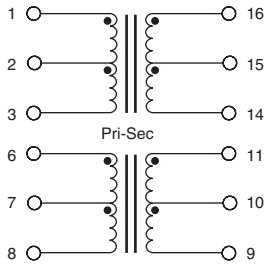
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part Number[1, 2]	Turns Ratio		Primary Pins TX/RX	Common Mode Choke	Inductance Primary (µH)	Interwinding Capacitance (pfMAX)	Leakage Inductance (µH MAX)	Winding Resistance (MAX)	Vrms
	Transmit	Receive							
E2452NL	1CT:1CT	1CT:1CT	1-3/6-8	None	140/140	12	0.3	0.3	1500
E2454NL	1CT:2CT	1CT:1CT	1-3/6-8	TX only	50/200	12	0.3	1.0	1500
E2457NL	1CT:1.41CT	1CT:1CT	6-8/1-3	None	140/140	12	0.2	0.3	1500
E2458NL	1CT:1.41CT	1CT:1CT	6-8/1-3	Shared	160/160	12	0.4	0.3	1500
E2466NL	1CT:2CT	1CT:1CT	6-8/1-3	None	20/100	12	0.3	0.6	1500
E2467NL	1CT:2CT	1CT:1CT	6-8/1-3	Shared	20/100	12	0.3	0.6	1500

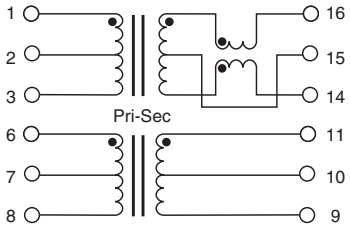
1. All above parts Moisture Sensitivity Level (MSL) = 1
2. All parts are supplied in Tubes but Tape & Reel options can be requested by adding "**T**" to the end of the part code, eg. E2457NL**T** will be the Tape & Reel version of E2457NL.

Schematics

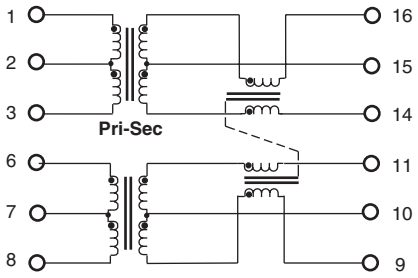
E24XXNL



Part without Choke



Part with TX Choke



Part including Shared Choke

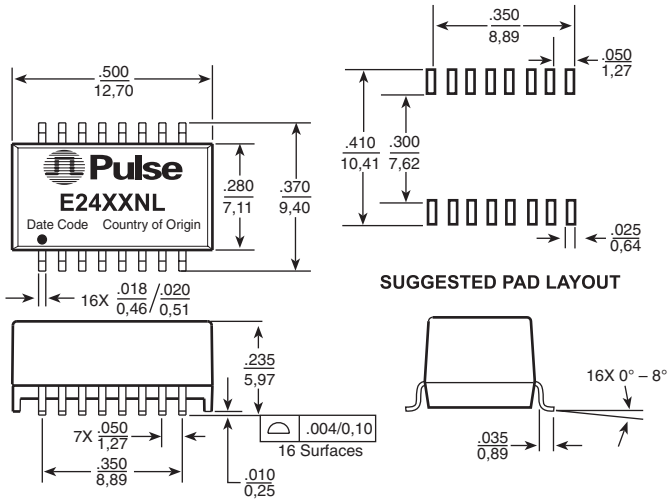
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Mechanical

E24XXNL



Dimensions: Inches / mm

Unless otherwise specified all tolerances are ±.010 / 0,25

Weight . . . . . .0.85 grams
Tape & Reel 40/reel
Tube 600/tube

Cross Reference to Old Pulse Products

New RoHS Part Number	Replaces Old Part Number
E2452NL	23Z114SMNL PE-65726NL
E2454NL	PE-68023NL ST4160TNL
E2457NL	23Z128SMNL PE-65745NL ST7011NL & ST7011TNL
E2458NL	23Z356SMNL PE-68048NL ST7010NL & ST7010TNL
E2466NL	23Z466SMNL PE-68041NL
E2467NL	23Z467SMNL E4001NL ST4202NL & ST4202TNL

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